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MAMSSGGSGGGVPEQEDSVLFRRGTGQSDSDIWDDTAI IKAYDKAVAS
FKHAIKNGDICETSGKPKTTPKRKPAKKNSQKKNTAASLQQWKVGDKCSAIWSEDGCIY
PATIASIDFKRETCVVVYTGYGNNREEQNLSDLI SPICEVANNIEQNAQENFNESQVSTDE
SENSRSPGNKSDNIKPKSAPWNSFLPPPPMPGPRLGPGKPKLKFNGPPPPPPPPHILL
SCWLPPFPSPGPIIPPPPPICPDSLDDADALGSM LISWYMSGYHTGYMGEKQNKKEGRC
SHSLN

FIGURE 1

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CGGGGCCCCACGCTGCGCACCCGCGGGTTTGCTATGGCGATGAGCAGCGGCGGCAGTGGT
GGCGGCGTCCCCGGAGCAGGAGGATTCCGTGCTGTTCCGGCGCGGCACAGGCCAGAGCGAT
GATTCTGACATTTGGGATGATACAGCACTGATAAAAGCATATGATAAAGCTGTGGCTTCA
TTTAAGCATGCTCTAAAGAATGGTGACATTTGTGAACTTCGGGTAAACCAAAACCACA
CCTAAAGAAAACCTGCTAAGAAGAATAAAAGCCAAAAGAAGAATACTGCAGCTTCCTTA
CAACAGTGGAAAGTTGGGGACAAATGTTCTGCCATTTGGTCAGAAGACGGTTGCATTTAC
CCAGCTACCATTGCTTCAATTGATTTTAAGAGAGAAACCTGTGTTGTGGTTTACACTGGA
TATGGAAATAGAGAGGAGCAAAATCTGTCCGATCTACTTCCCCAATCTGTGAAGTAGCT
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AGTGAGAACTCCAGGTCTCCTGGAAATAAATCAGATAACATCAAGGCCAAATCTGCTCCA
TGGAACCCCTTTCTCCCTCCACCACCCCCCATGCCAGGGCCAAGACTGGGACCAGGAAAG
CCAGGTCTAAAATTCAATGGCCCCACCACCGCCACCACCACCACCCCACTTACTA
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TGTCCAGATTTCTCTTGATGATGCTGATGCTTTGGGAAGTATGTTAATTTTCATGGTACATG
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AGAAACGATCAGACAGATCTGGAATGTGAAGCGTTATAGAAGATAACTGGCCTCATTCT
TCAAAATATCAACTGTTGGGAAAGAAAAAGGAAGTGGAAATGGGTAACTCTTCTTGATTA
AAAGTTATGTAATAACCAAATGCAATGTGAAATATTTTACTGGACTCTTTTGAAAAACCA
TCTGTAAAAGACTGAGGTGGGGGTGGGAGGCCAGCACGGTGGTGAGGCAGTTGAGAAAAT
TTGAATGTGGATTAGATTTTGAATGATATTGGATAATTATTGGTAATTTTATGGCCTGTG
AGAAGGGTGTGTAGTTTATAAAAGACTGTCTTAATTTGCATACTTAAGCATTTAGGAAT
GAAAGTTAGAGTGTCTTAAAATGTTTCAAAATGGTTTAAACAAAATGTATGTGAGGCGTAT
GTGGCAAAATGTTACAGAATCTAACTGGTGGACATGGCTGTTTCAATTGTACTGTTTTTTC
TATCTTCTATATGTTTAAAAGTATATAATAAAATATTTAATTTTTTTTTTAAAAAAA
AA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

FIGURE 2A

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AAATTTTAAATTTTTTGTAGAGACAGGGTCTCATTATGTTGCCAGGGTGGTGTCAAGCTCCA
GGTCTCAAGTGATCCCCCTACCTCCGCCTCCCAAAGTTGTGGGATTGTAGGCATGAGCCACTG
CAAGAAAACCTTAACTGCAGCCTAATAATTTGTTTTCTTTGGGATAAATTTTAAAGTACATTAA
AAGACTATCAACTTAAATTTCTGATCATATTTTGTGTAATAAAATAAGTAAAAATGTCCTGTGAA
CAAAAATGCTTTTAAACATCCATATAAAGCTATCTATATATAGCTATCTATATCTATATAGCTA
TTTTTTTTTAACTTCCTTTTTATTTTCTTACAG*GGTTTCAGACAAAAATCAAAAAGGAAGG
TGCTCACATTCCTTAAATTAAGGA*GTAAGTCTGCCAGCATTATGAAAGTGAATCTTACTTTT
GTAALACTTTATGCTTTGTGGAAAAAALATGTTTTTGAACAGTTAAAAAGTTCAGATGTTAGA
AAGTTGAAAGCTTAATGTAAALCAATCAATATTAALGAATTTTGTATGCCAAAACATTTAGATA
AAGGTTAATCTACATCCCTACTAGAATTCTCTACTTAACTGGTGGTTGTGTGGAAAGAAAC
ATACTTTCACAAATAAAGAGCTTTAGGATATGATGCCATTTTATATCACTAGTAGGCAGACCAG
CAGACTTTTTTTTATTTGTGATATGGGATAACCTAGGCATACTGCACTGTACACTCTGACATAT
GAAGTGCTCTACTCAAGTTTAACTGGTGTCCACAGAGGACATGGTTTAACTGGAATTCGTCAA
GCCCTCTGGTTCCTAATTTCTCATTTCAG*GAAATGCTGGCATAGAGCAGCACTAAATGACACC
ACTAAAGAAACGATCAGACACATCTGGAAATGTGAAGCGTTATAGAAGATAACTGGCCCTCAATT
CTTCAAAATATCAAGTGTGGGAAAGAAAAAAGGAAGTGAATGGGTAACTCTTCTTGATTA
AAAGTTATGTAAATAACCAATGCAATGTGAATATTTTACTGGACTCTTTTGAAAAAC
CATCTGTAAAAAGACTGGGGTGGGGGTGGGAGGCCAGCACGGTGGTGAGGCAGTTGAGAAAA
TTTGAATGTGGATTAGATTTTGAATGATATTGGATAATTATTGGTAATTTTATGGCCTGT
GAGAACGGTGTGTAGTTTATAAAAAGACTGTCTTAATTTGCATACTTAAGCATTTAGG
AATGAAGTGTAGAGTGTCTTAAAAATGTTTCAAAATGGTTTAAACAAAATGTATGTGAGGCGT
ATGTGGCAAAAATCTTACAGAACTAACTGGTGGACATGGCTGTTCATTGTACTGTTTTTT
TCTATCTTCTATATGTTTTAAAAAGTATATAAATAAAAAATATTTAATTT

FIGURE 2B

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FIGURE 3A

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AAATTTTAAATTTTTTGTAGAGACAGGGTCTCATTATGTTGCCCAGGGTGGTGTCAAGCTCCA
GGTCTCAAGTGATCCCCCTACCTCCGCCTCCCAAGTTGTGGGATTGTAGGCATGAGCCACTG
CAAGAAAACCTTAACTGCAGCCTAATAATTGTTTTCTTTGGGATAACTTTTAAAGTACATTAA
AAGACTATCAACTTAATTTCTGATCATATTTTGTGTAATAAAATAAGTAAAATGTCTTGTGAA
CAAAATGCTTTTAAACATCCATATAAAGCTATCTATATATAGCTATCTATGTCTATATAGCTA
TTTTTTTTTAACTTCCTTTTATTTTTCCTTACAG*GGTTTCAGACA AAAATCAAAAAGAAGGAAGG
TGCTCACATTCCTTAAATTAAGGA*GTAAAGTCTGCCAGCATTATGAAAGTGAATCTTACTTTT
GTA AAACTTTATGCTTTGTGGAAAACAAATGTTTTTGAACAGTTAAAAAGTTCAGATGTTAAA
AAGTTGAAAGGTTAATGTAAAACAATCAATATTAAGAATTTTGATGCCAAAACATTTAGATA
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ATACTTTCACAAATAAGAGCCTTAGGATATGATGCCATTTTATATCACTAGTAGGCAGACCAG
CAGACTTTTTTTTTATTGTGATATGGGATAACCTAGGCATCTGCACTGTACACTCTGACATAT
GAAGTGCTCTAGTCAAGTTTAACTGGTGTCCACAGAGGACATGGTTTAACTGGAAATTCGTCAA
GCCCTCTGGTTCTAATTTCTCATTTGACAG*GAAATGCTGGCATAGACCAGCACTAAATGACACC
ACTAAACAAACGATCAGACAGATCTGGAATGTGAAGCGTTATAGAAGATAACTGGCCCTCATTT
CTTCAAAAATATCAAGTGTTGGGAAAGAAAAAGGAAGTGGAAATGGGTAACTCTCTTGATT
AAAGTTATGTAATAACCAATGCAATGTGAAATATTTTACTGGACTCTTTTGAAAAAC
CATCTGTAAAAGACTGGGGTGGGGTGGGAGGCCAGCACGGTGGTGAGGCAGTTGAGAAAA
TTTGAATGTGGATTAGATTTTGAAATGATATTGGATAATTATGGTAAATTTTATGGCCTGT
GAGAAGGGTGTGTAGTTTATAAAAGACTGTCTTAATTTGCATACTTAAGCATTTAGG
AATGAAGTGTTAGAGTGCTTAAAAATGTTTCAAAATGGTTTAAACAAAATGTATGTGAGGCGT
ATGTGGCAAAAATGTTACAGAACTAACTGGTGGACATGGCTGTTTCAATTGTACTGTTTTT
TCTATCTTCTATATGTTTAAAAGTATATAATAAAAATATTTAATTT

FIGURE 3B

0000000000

[illegible][illegible]

TCGAGGTTAGATTGTATATATATCCCATGTACACACACACACACACACACAC
ACACACACACACAGACTTAATCTGTTTACAGAAATAAAGGAATAAAATACCGT
TCTACTATACACCAAACCTAGCCATCTTGAC

CCCTGAGAAGGCTTCCTCCTGAGTATGCATAAACATTCACAGCTTCGATGCGTGT
GTGTGTGTGTGTGTGTGTGTATGTTTGCTTGCACTGTAAAAACAATTGCAACATC
AACAGAAATAAAATTAAGGAATAATTCTCCTCCGACTCTGCCGTTCATCCAG
TGAAACTCTTCATTCCTGGGGTAAAGTTCCTTCAGTTCCTTCATAGATAGGTATAT
ACTTCATAAAGTCAAACAATCAGGCTGGGTGCAGTAGCTCATGCCTGTAATCCCAG
CCCTTTGGGAGGCCGAGCTGGGCAGATCGA

TCCACCCGCCCTGGCCCTCCCAAGCNC'TGGGATTAACAGCGCTGACTGCCGCACCC
AGCTGTAAACTGGN'T'NNTAATGGT'AGAT'T'TNAGGTATTAACAAATAGATAAAAA
GATACT'T'TNGGCATACTGTGTATTGGGATGGGGT'AGAACAGGTGT'NCT'ACCCA
AGACATT'FACT'AAAAATCGCCCTCGAAATGCTATGTGAGCTGTGTGTGTGTGTGT'
GTGTGTGTGTGTATTAAAGGAAAAGCATGAAGATATTTATGCT'TGAT'T'T'T'T'T'T'
TNACT'CATAGCT'TCA'TAGTGGANCAGATACATAGTCT'AAATCAAAATGTT'TAAAC
T'T'TTATGTCACT'GTGCTGT'C

FIGURE 4

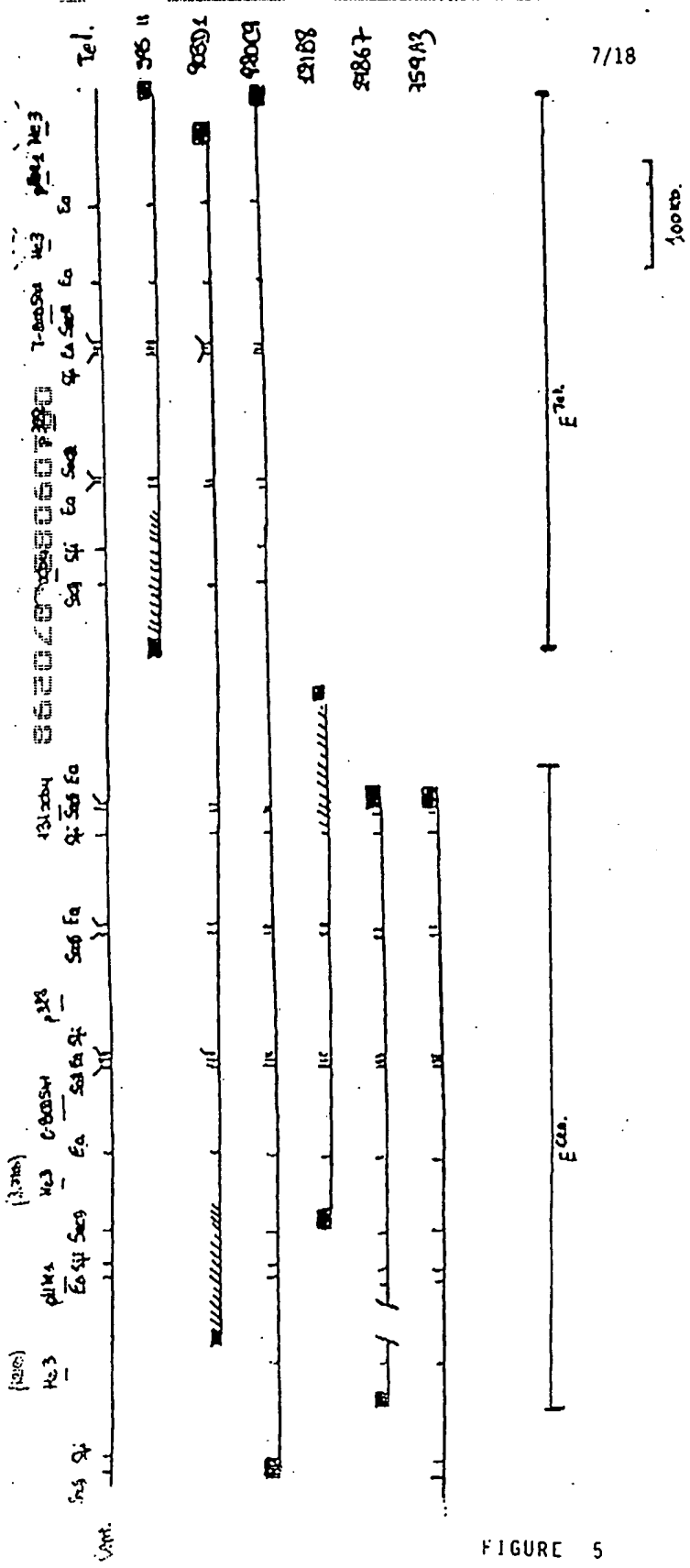


FIGURE 5

Restoration map of the 5 q13 region. for Eog I (Ea), Soc II (Soc II), Sp I (Sp). Numbers under parentheses indicate the restoration fragment described by He 3; Tectonic element (E Tel), Tectonic element (Ecc.)
 Cretaceous (Cont.), Tectonic (Tel.). Notes are indicated above the restoration map. Notes are below the restoration map.

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FIGURE 6

Gene dosage analysis of the 5q13 region with the 132SE11 plasmid clone in SMA type I patient. Total human DNA from SMA family was digested with HindIII for Southern blotting. Filter was consecutively hybridized with 132SE11 (A) and JK53 probes (B). A significant decrease in 132SE11 band intensity, which indicated the deletion, compared with their parents. F/Father, M/Mother, A/affected

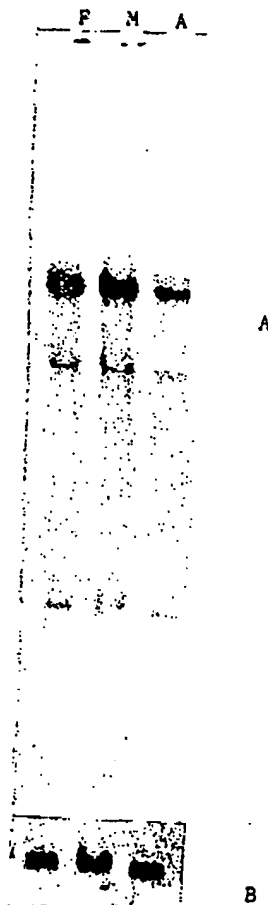


FIGURE 7

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MAMSSGGSGGGVPEQEDSVLFRRGTGQSDDSDIWDDTALIKAYDKAVASFKHA
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CIYPATIASIDFKRETCVVVYTYGNREEQNLSDLISPICEVANNIEQNAQEN
ENESQVSTDESENSRSPGNKSDNIKPKSAPWNSFLPPPPMPGPRLGPGKPGGL
KFNGPPPPPPPPPHLISCWLPPFPSPGPIIPPPPPICPDSLDDADALGSMI
SWYMSGYHTGYM

FIGURE 8

00100002-0700000

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662020-28060760

L-51

L-132

L-5

L-13

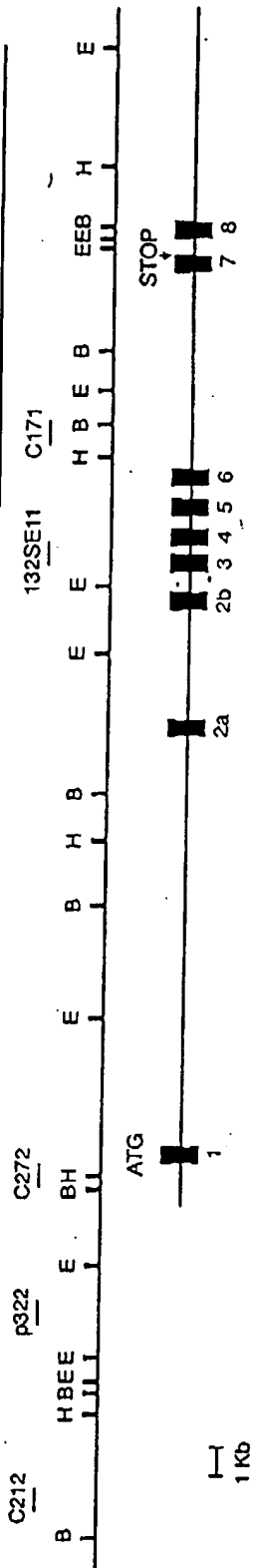


Figure 9

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1
cctccggggcaccgtaactgttccgctcccagaagccccggggcgccggaaglcgtcactcttaagaaggagc
gggccccacgctgcgcaccgcgggtttgct ATG GCG ATG AGC AGC GGC GGC AGT GGT GGC
M A M S S G G S G G
GGC GTC CCG GAG CAG GAG GAT TCC GTG CTG TTC CCG CGC GGC ACA GGC CAG gtg
G V P E Q E D S V L F R R G T G Q
aggtcgcagccagtgagctctccctattagcgctctcagcaccctcttccggcccaactctctctccga
2a
gtgtaattttgttatgtgttgattaagatgactcttggtaactaacatacatltttctgattaacacctatctgn
acatgagltgttttttatttcttaccctttccag AGC GAT GAT TCT GAC ATT TGG GAT GAT
S D D S D I W D D
ACA GCA CTG ATA AAA GCA TAT GAT AAA GCT GTG GCT TCA TTT AAG gtagaaatgc
T A L I K A Y D K A V A S F K
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2b
agggtcclltctgaggglgacggagccttgagactagcttatagtaglaactgggttatgtctgtgacttttatt
ctgtgcaccaccctgtacatgtacattttttcttattttctgtag CAT GCT CTA AAG AAT GGT
H A L K N G
GAC ATT TGT GAA ACT TCG GGT AAA CCA AAA ACC ACA CCT AAA AGA AAA CCT GCT
D I C E T S G K P K T T P K R K P A
AAG AAG AAT AAA AGC CAA AAG AAG AAT ACT GCA GCT TCC TTA CAA CAG gttattt
K K N K S Q K K N T A A S L Q Q
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3
gctgcaggtcgatcaaaacgagatgatagtttggcctcttcaaaagaaatgtgtgcatgtatatcttttg
attctttttgtag TGG AAA GTT GGG GAC AAA TGT TCT GGC ATT TGG TCA GAA GAC
W K V G D K C S A I W S E D
GGT TGC ATT TAC CCA GCT ACC ATT GCT TCA ATT GAT TTT AAG AGA GAA ACC TGT
G C I Y P A T I A S I D F K R E T C
GTT GTG GTT TAC ACT GGA TAT GGA AAT AGA GAG GAG CAA AAT CTG TCC GAT CTA
V V V Y T G Y G N R E E Q N L S D L
CTT TCC CCA ATC TGT GAA GTA GCT AAT AAT ATA GAA CAG AAT GCT CAA GAG gta
L S P I C E V A N N I E Q N A Q E
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AAT GAA AAT GAA AGC CAA GTT TCA ACA GAT GAA AGT GAG AAC TCC AGG TCT CCT
N E N E S Q V S T D E S E N S R S P
GGA AAT AAA TCA GAT AAC ATC AAG CCC AAA TCT GCT CCA TGG AAC TCT TTT CTC
G N K S D N I K P K S A P W N S F L
CCT CCA CCA CCC CCC ATG CCA GGC CCA AGA CTG GGA CCA GGA AAG gtaaaccttct
P P P P P M P G P R L G P G K
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5
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aagtttaattttcttttgaatatctcttatag CCA GGT CTA AAA TTC AAT GGC CCA CCA CCG
P G L K F N G P P P
CCA CCG CCA CCA CCA CCA CCC CAC TTA CTA TCA TGC TGG CTG CCT CCA TTT CCT
P P P P P P P H L S C W L P P F P
TCT GGA CCA CCA gtaagtaaaaagagtataggttagattttgctttcacatacaattlgataatta
S G P P
6
ccagacttactltttgttttactggatataaacaatatcttttctgtctccag ATA ATT CCC CCA
I I P P
CCA CCT CCC ATA TGT CCA GAT TCT CTT GAT GAT GCT GAT GCT TTG GGA AGT ATG
P P P I C P D S L D D A D A L G S M
TTA ATT TCA TGG TAC ATG AGT GGC TAT CAT ACT GGC TAT TAT ATG gtaagtaatca
L I S W Y M S G Y H T G Y Y M
ctcagactttttctgacaatttttttglagttatgtgactttgtttggtaattttataaaataactacttg

Figure 10

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7
aactgcagcctaataattggttttctttgggataacttttaagtagacattaaaagactatcaacttaatttct
gatcatattttgttgaataanaataagtaaaatgtcttgtgaaacaaaatgcttttaacatccatataaagc
→ a
tatclatataatagatfarcfargtctatataggtgthffffl laactllootccatcttccllacay GGr
→ T
TTC AGA CAA AA' CAA AAA GAA GGA AGG TGC TCA CAT TCC TTA AAT taaggagtaag G
F R Q N Q K E G R C S H S L N *
tctgcagcattatgaaagtgaatcttacttttgtaaaactttatggttltgtggaaaacaaatgtttttgaa
→ g
cagltaaaaagttcagatgttaaaaaagttgaaaggltaatgtaaaacaatcaatattaaagaattttgatgc
→ g
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→ a
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Figure 10 (Continued)

[illegible]

Figure 11

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58 Met Ala Met Gly Ser Gly Gly Ala Gly Ser Glu Glu Glu
 112 Asp Thr Val Leu Phe Arg Arg Gly Thr Gly Glu Ser Asp Asp Ser Asp Ile Trp
 166 Asp Asp Thr Ala Leu Ile Lys Ala Tyr Asn Lys Ala Val Ala Asp Phe Lys His
 220 Ala Leu Lys Asn Gly Asp Ile Cys Glu Thr Pro Asp Lys Pro Lys Gly Thr Ala
 274 Arg Arg Lys Pro Ala Lys Lys Asn Lys Ser Glu Lys Lys Asn Ala Thr Thr Pro
 328 Leu Lys Glu Trp Lys Val Gly Asp Lys Cys Ser Ala Val Trp Ser Glu Asp Gly
 382 Cys Ile Tyr Pro Ala Thr Ile Thr Ser Ile Asp Phe Lys Arg Glu Thr Cys Val
 436 Val Val Tyr Thr Gly Tyr Gly Asn Arg Glu Glu Glu Asn Leu Ser Asp Leu Leu
 490 Ser Pro Thr Cys Glu Val Ala Asn Ser Thr Glu Glu Asn Thr Glu Glu Asn Glu
 544 Ser Glu Val Ser Thr Asp Asp Ser Glu His Ser Ser Arg Ser Leu Arg Ser Lys
 598 Ala His Ser Lys Ser Lys Ala Ala Pro Trp Thr Ser Phe Leu Pro Pro Pro
 652 Pro Met Pro Gly Ser Gly Leu Gly Phe Gly Lys Pro Gly Leu Lys Phe Asn Gly
 706 Pro Pro Pro Pro Pro Pro Leu Pro Pro Pro Pro Phe Leu Trp Cys Trp Met Pro
 760 Pro Phe Pro Ser Gly Pro Pro Ile Ile Pro Pro Pro Pro Pro Ile Ser Pro Asp
 814 Cys Leu Asp Asp Thr Asp Ala Leu Gly Ser Met Leu Ile His Trp Tyr Met Ser
 868 Gly Tyr His Thr Gly Tyr Thr Met Gly Phe Arg Glu Asn Lys Lys Glu Gly Lys
 907 Cys Ser His Thr Asn

Figure 12

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20 30 40 50 60 70 80
GSGGCVPEQEDSVLFRRTGQSDSDIWDUTALIKAYDKAVASFKHALKNGDICETSGKPKTTFKRRPAK

GSGGAGSEQRITVLFRRTGQSDSDIWDUTALIKAYDKAVASFKHALKNGDICETPDKPKGTARRKPAK
20 30 40 50 60 70
90 100 110 120 130 140 150
KNKSQKKNTAASLQQWVGDKCSAIWSEDCIYPATIASIDFKRETCTVVVYTGYNREEQNLSDLLSPIC

KNKSQKKNTAASLQQWVGDKCSAVWSEDCIYPATITISIDFKRETCTVVVYTGYNREEQNLSDLLSPTC
90 100 110 120 130 140
160 170 180 190 200 210 220
EVANNIEQNAQENFENESQVSTDESENSRSPGNKSDNIKPKSAPWNSFLPPPPMPGPRLGPGKPGKPFNG

EVANSTEQNTQENE--SQVSTDDSEHSRSLRKAHSKSKAAPWTSFLPPPPMPGSGLOPGKPOLKPFNG
160 170 180 190 200 210
230 240 250 260 270 280 290
PPPPPPPPPHLLSCWLPPFPSPGPIIPPPPICPDSDDDADALGSMLISWYMSGYHTGYMGPKNQKE

PPPPPPPLPPFPLPCWMPFPSPGPIIPPPPISPDCLDDTDALGSMLISWYMSGYHTGYMGPKNQKE
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300
GRCSHSL

GRCSHTN
290

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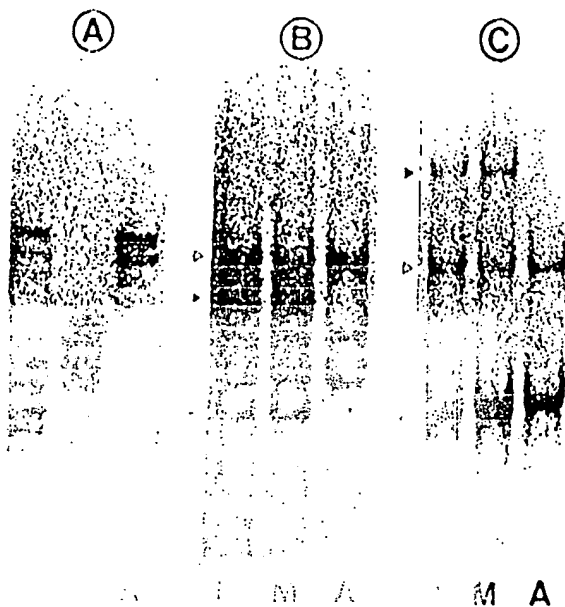


Figure 14

09109082.070298

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SSCP Analysis

▼ SMA

▼ C-BCD541

XX
XX
XX
XX
XX
XX

121B8 YAC
595C11 YAC
HUMAN 1 CONTROL
HUMAN 2 CONTROL
HUMAN 3 CONTROL
HUMAN 4 SMA

Figure 15